Dairy Cattle

. : sics are the Holstein-Friesian, Jersey, Guernsey, The free most important breeds of milk cows in the

Holstein-Friesian, produce more milk than out. 15. good milk producers, but some breeds, suc -910-Ayrshire, and Brown Swiss. All breeds are c

Dairy cows normally give milk for about a of milk weighs 8.6 pounds (3.9 kilograms). creameries and receiving stations. One gallon because farmers are paid for their milk by weight a early 1970's. Milk production is measured by weigh 1950 to about 10,270 pounds (4,658 kilograms) in the cow increased from 5,314 pounds (2,410 icilograms) is to make butter. The average annual output of milk $p_{\rm cc}$ butterfat content is important because butterfat is use put and butterfat content by improving herds. I. duced little milk. Dairy farmers increased the milk on The cows brought to America in colonial days pre-

provide about two-fifths of our beef and veal. are sent to a livestock market for slaughter. Dairy cat. older. When cows no longer give milk, they was: years, but some still produce milk at the age

Leading Dairy Cattle States and Provinces

首等其實有其實

ं केन्य Wisconsin *9261 '['upr uo Number of dairy cattle in the state or province

日本日本日本日本 Quebec **建立其实其实** Minnesota

Pennsylvania o tes tes tes tes tes tes

230,000

Ontario

California

New York

40,40,40 **Wichigan**

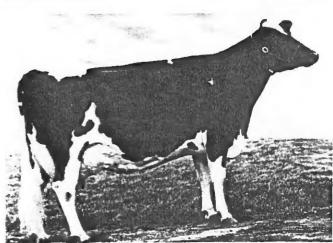
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daity-under one yent. Sources: U.S. Department of Agriculture; Statistics Canada. eginic figures exclude all beef entile over 500 pounds (250 kilograms) and sli cattle—both beef and dairy—under 500 pounds, Province figures exclude all beef entile over I yest in see and all estile—both beef sod

Five Main Breeds of Dairy Cattle

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Average annual rield of milk	(3'820 KB) 9'200 IP*	(3°500 KB) 2°000 IP2	(3,608 kg) 5,750 lbs.	(3'890 Ka) 8'200 IP*	(5,381 kg) 5,250 lbs.
Average per cent Mitertat of milk	O°F	4.0	Ly	∠ ε	5
eziz ni Ansi	3	7	7	ι	S
flece of origin	Scotland	Switzerland	lsle of Guernsey	The Netherlands	isle of Yersey
Cale	Bed and white bettoqs	Yang-fisinwo18	Orange, fawn, bettogs stidw bra	Black and white spotted	Light to dark wat-friyarg
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Danny Weaver, Agri-Graphic Services

Holstein-Friesian

Holstein-Friesian cattle, usually called Holsteins, aridentified by their black-and-white coats. Some Hosteins are nearly all black or all white. A few are regard white. Holsteins are the largest dairy breed. They have broad hips and long, deep barrels, or body trunks. Their horns slant forward, but curve inward.

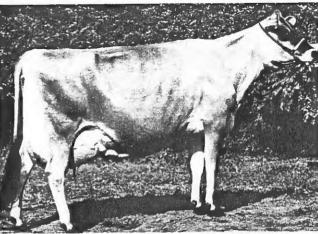
There are more Holsteins in the United States than any other dairy breed. Many farmers favor the because a Holstein cow produces more milk the breeds. However, their milk contains less than that of other breeds.

Holsteins probably were developed from a strain of black-and-white cattle found in the province of Friesland in The Netherlands. Cattle raisers of Schleswig-Holstein in Germany also helped develop the breed.

Holsteins were brought to the United States in 1795.

Holsteins were brought to the United States in 1795. They are now raised in every state. Holsteins are also popular in Canada. The Holstein-Friesian Association of America has headquarters in Brattleboro, Vt.





The American Jersey Cattle Club

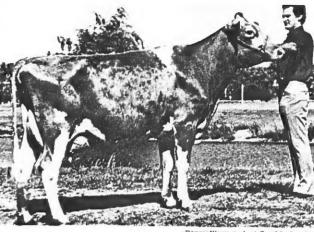
Jersey

Jersey cattle range in color from gray to dark fawnor reddish-brown. Some appear almost black. The Jersey is the smallest major dairy breed. Its brown face is unusually short from its forehead to its nostrantes small horns curve inward.

Jersey cows produce less milk than the four ther major breeds, but their milk contains the most butter-fat. A thick mass of cream rises to the top of a container of Jersey milk.

Jersey cattle came from the tiny British island of Jersey in the English Channel. They were brought to the United States in 1850. Jerseys thrive in all sections of the country. Many are raised in Canada. The American Jersey Cattle Club has headquarters in Columbus, Ohio.





Guernsey

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Guernsey cattle are slightly larger than Jerseys. The Guernsey's fawn-colored coat is spotted with hite markings. The Guernsey has a long head. A ite shield often appears on its broad forehead. The curve upward and forward

curve upward and forward.
Guernseys produce a little more milk than Jerseys, but the rich milk of the Guernsey ranks second to that of the top-ranking Jersey in butterfat content.

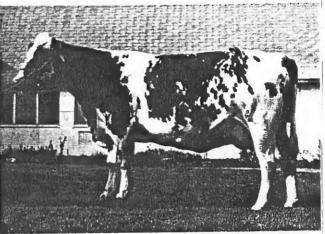
of the top-ranking Jersey in butterfat content.

Guernseys probably originated in France when breeders crossed the red brindle cattle of Normandy with the small brown-and-white cattle of Brittany.

Guernseys were brought to the United States in 1831

from the British island of Guernsey, near Jersey. They are raised in every state, as well as in Canada. The American Guernsey Cattle Club has headquarters in Peterborough, N.H.

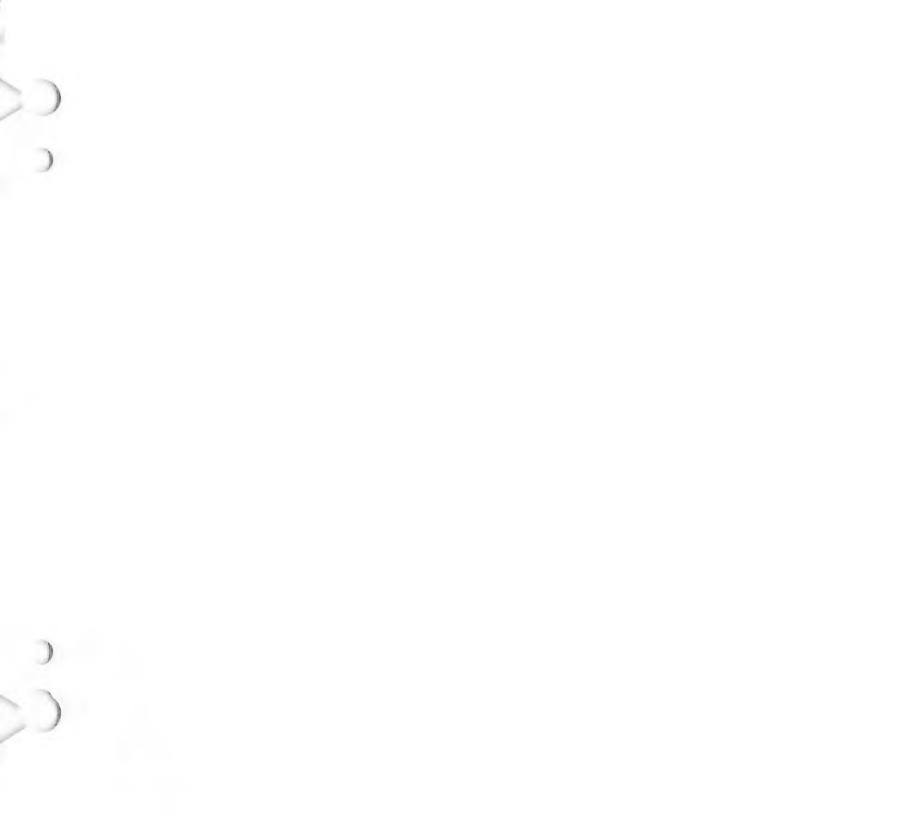


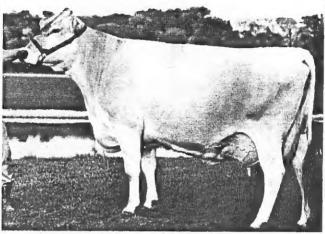


John Colwell from Grant Heilman

Ayrshire

Ayrshire cattle are red and white or brown and white. Some are nearly all red or all white. The Ayrshire's lon curving horns give it an impressive appearance. Its dv is sturdy, but somewhat lean. Ayrshire milk protion ranks between Brown Swiss and Guernsey. A shires came from the hilly country of Ayr in southwest Scotland. They are more rugged than other breeds, and they thrive in hilly country. Ayrshires were brought to the United States in 1822. They later spread to the Pacific Coast, and are also popular in Canada. The Ayrshire Breeders' Association has headquarters in Brandon, Vt.





The Brown Swiss Cattle Breeders' Association

Brown Swiss

Brown Swiss may be light brown, dark brown, or brownish-gray. A light gray stripe may run along the back. The nose, horn tips, and tail switch are black. Brown Swiss are larger than most dairy cattle. The horn clant forward and upward.

her stand forward and upward.

In Swiss milk production ranks second only to the Holsteins. The milk is pure white, and is rich in nonnet solids, minerals, and lactose, or milk sugar. These qualities make the milk of Brown Swiss cattle excellent for cheese.

Like the Holstein, the Brown Swiss is one of the oldest breeds of dairy cattle. It was first raised in the canton (state) of Schwyz in Switzerland.

Brown Swiss cattle were brought to New England in 1869. They now are raised throughout the United states and also in Canada. The Brown Swiss Cattle Breeders' Association of America has headquarters in Belvin Wis.

other Dairy Cattle. Dutch Belted cows are black, with belt of white around the middle. Their milk sabout as much butterfat as that of the Brown and Ayrshire. Dutch Belted cows were brought to the United States from The Netherlands in the late 1830's. This breed is raised mostly in the eastern United States.

French Canadian cattle are a small, dark brown breed, much like the Jersey and the Guernsey. They are raised mostly in Quebec. The milk of these cows is rich in butterfat. French Canadian cattle are not common in any sections of the United States.

Kery cattle, a black breed, originated in Ireland.
The are closely related to Dexter cattle, which are and have short legs. Dexters produce about one exter offspring, one fourth Kerry-type offspring, as the fourth abnormal "bulldog" calves that die at birth. Kerry and Dexter cattle are not commonly taised in the United States.

Red Sindhi is a red, Brahman-type of cattle that originated in the province of Sind in Pakistan. It produces more milk than the Brahman, and has been crossed with other breeds in the United States to develop cattle with greater resistance to high temperatures.

Dual-Purpose Cattle

Some cattle can be raised for beef or kept as dairy
They are called dual-purpose cattle. These animals
any of the qualities of beef cattle, but they also
ar od milk producers. The most important dualbe breeds are the Milking Shorthorn and the Red

Poll. Many farmers raise dual-purpose breeds only for meat. These breeds produce calves that grow rapidly and can be slaughtered for veal or baby beef sooner than some beef cattle breeds.

Dairy cattle provide much of our beef and veal. But they are not classified as dual-purpose cattle, because they are bred and raised chiefly for milk.

Milking Shorthorns produce large amounts of milk and beef. They are popular with farmers who do not specialize either in fattening beef cattle for market or in producing milk for big cities.

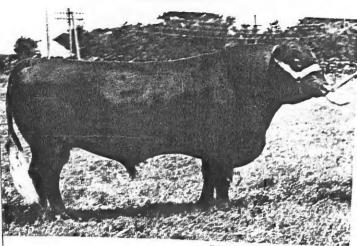
Milking Shorthorns are red, white, roan, or red and white spotted. They were brought to Virginia and Maryland from England in 1783. Milking Shorthorns are raised in the Middle West and the eastern and southeastern sections of the United States. The American Milking Shorthorn Society has headquarters in

Springfield, Mo.

Red Polls are red, hornless cattle. Horned Norfolk cattle were crossed with polled Suffolk to produce Red

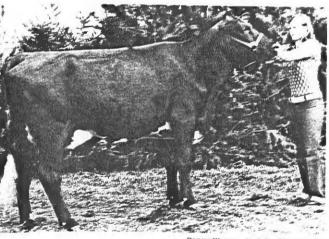
Polls. Red Polls are smaller than Sheless numerous than Milking Short.

The breed originated in the counties
Suffolk in England. Red Polls were become
United States in 1873. Most of the Red Polls
United States are raised on farms in the Middle New
The Red Poll Cattle Club of America has its
quarters located in Lincoln, Nebr.



Red Poll

Danny Weaver, Agri-Graphic Services



Milking Shorthorn

Danny Weaver, Agri-Graphic Services

Breeding and Care of Cattle

Breeding. Cattle breeders select and mater types of cattle for a special purpose, such as precial graph as a special purpose, such as precial graph at the best of the offspring until, after ations, the cattle possess the desired graph way, beef cattle have been bred to mature thus can be sold at a greater profit than they had to be fattened over a longer time, breeding has increased milk output and the percent of butterfat.

Heifers usually are mated when they are between and 27 months old. A cow carries her calf in her is for nine months before it is born. Cows usually have the calf every year. Sometimes twins are born. Bulls man start breeding at the age of 1 year, but they are these active between 2 and 6 years of age.

A cow cannot produce milk unless it has to a calf. Such a cow is known as a "fresh. Afrecthe birth of the calf, the cow usually git about 10 months. A cow that does not a called a "dry cow."

Feeding. Feeding methods have greatly improved the production of both meat and milk. Cattle are heart eaters. Here is a recommended daily diet for fattening a 2-year-old beef steer: 25 pounds (11 kilograms) of corror sorghum silage, 4 pounds (1.8 kilograms) of reclover hay, 14 pounds (6 kilograms) of corn or ground grain sorghum, and 1½ pounds (0.57 kilogram) of linseed meal or cottonseed meal.

The fattening diet of younger cattle contains more grain and less roughage, or coarse feed such as hav.

CATTLE Cattle feeders watch the ap ling They often add "blackstr their cattle closely. They often acu unachartile incouragetile solution, to encouragetile suggistion to the latest incourage incouragetile incourage They often to encountrille cat more. The solution, to the latest tific rathods to make sugar feeders gain weight that the owest control best cattle gain weals may ded cs. a low-grade their cattle gain weight the heir cattle gain wers may ded to a reir carrie chemicals and note to attle feed to Certain chemicals and note and note gally. Antibi-certain eat added to feeting gall in wait Bure called added to fe s are also account of milk that pro annow can be in a properliet. The a cow coweats ilage an pound nds of day co usu body pound of rain or of seeds pounds fmilk. f camounts offerage, alfalfa. Thy eat urn it intomeat cating certain Western dinclude some destroy Serious brucellosis. bloat and ally picked amal's body Called Jane 19 0 fever and al to cattle. It usually of age. It g, and high soil, usually the paunch,

CATTLE

causing the animal to stagger and gasp for breath. Cattle may be stricken with bloat after grazing in moist pastures. A change in feed when cattle are very hungry also may cause them to bloat.

Brucellosis, or Bang's Disease, attacks the lymph glands, udders, and reproductive organs of cows. Cattle pick up the brucellosis germ from dirty feed or other objects. Cows with brucellosis often cannot bear calves. See Bang's Disease.

Foot-and-Mouth Disease is caused by a virus. The disease causes lameness and reduces milk output. The United States Department of Agriculture does not allow the import of cattle from countries where the disease is known to exist. See Foot-AND-MOUTH DISEASE.

Mastitis is the most costly disease of dairy cattle in the United States. The disease is caused by germs that enter the udder. The germs do the greatest damage when the udder is injured or exposed to cold, wet surfaces. The udder then becomes hard, swollen, and painful. Mastitis causes a drop in milk production and quality. Antibiotics can be used effectively in treatment.

Insects spread such diseases as anaplasmosis, which is similar to malaria. Texas fever is an infectious disease caused by the cattle tick (see CATTLE TICK). Many kinds of flies annoy cattle. Some flies merely cause cattle to produce less meat or milk. But heel flies lay eggs on the heels of cattle. The larvae work up through the body and bore holes in the hide. Cattle owners spray cattle with insecticides to kill flies and other insects. Veterinarians use modern vaccines, drugs, and antibiotics to help keep cattle healthy and to cure sickness.

develop fully. They are stunted at birth, and many assoon after they are born. Cattle owners have become alarmed because more and more dwarf cattle have at peared in purebred herds. Dwarfs appear in every many breed. Some breeders believe that efforts to develop better beef cattle may lead to dwarfsm. Some breeders with otherwise desirable qualities seem to produce many dwarfs.

Raising and Marketing Cattle

Most beef calves are born on Western rane is in a spring. The young spend the summer will fenced pastures, or on an open range. Most describe branded (marked) with a hot iron to show the large (see RANCHING [picture: Famous Ranch Brands]). In the fall, the calves are weaned (taken from their mother)

Feeder Cattle. The rancher sells the weaned calceto farmers, or feeders, in the Middle West, on the West Coast, or elsewhere. Such calves, called feeder cattle, arraised in feed lots. A feed lot is an enclosed area whencattle are fed special feed to fatten them for market The farmer then sends them to a stockyard (market Meat packers at the market buy cattle for slaughter The largest stockyards are in Omaha, Nebr.; South Straul, Minn.; Oklahoma City, Okla.; and Straul Iowa. See Meat Packing.

Ranchers sometimes send their calves dir to a market instead of selling them to farmers. Fatters, it turn, may buy feeder cattle from a carefully chose market instead of from a rancher. The farmers fatter such calves, then sell them back to a market at a profit.

A farmer usually fattens feeder cattle for 90 to 180 days. The farmer tries to sell them when market con-